

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference C1-A0210Y1P	C1-A0210Y1P							
International application No.	International filing date (da	y/month/year)	Priority date (day/month/year)					
РСТ/ЈР03/07071	04 June 2003 (04		05 June 2002 (05.06.02)					
International Patent Classification (IPC) of C12N 15/09, 5/16, C07K 16/0	r national classification and IPC 8, A01K 67/027		r:-					
Applicant	Applicant CHUGAI SEIYAKU KABUSHIKI KAISHA							
and is transmitted to the applicar	t according to Afficie 30.		national Preliminary Examining Authority					
2. This REPORT consists of a total								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of sheets.								
3. This report contains indications	relating to the following items:							
I Basis of the report								
II Priority								
III Non-establishm	ent of opinion with regard to n	ovelty, inventive	step and industrial applicability					
IV Lack of unity o		٠						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI Certain docum	VI Certain documents cited							
VII Certain defects	in the international application	ı						
VIII Certain observations on the international application								
Date of submission of the demand	I	Date of completic	on of this report					
04 June 2003 (0	4.06.03)	21	November 2003 (21.11.2003)					
Name and mailing address of the IPE	/IP	Authorized office	я [^] .					
The Name of the Na		- Telephone No.						
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International application	No.
CT/JP03/	0707

	1. Basis of the report				
1. W			the elements of the international application:*		
Б	7	the inter	mational application as originally filed		
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		iternatio e elemei	to the language, all the elements marked above were available or furnished to this Authority in the language in which onal application was filed, unless otherwise indicated under this item. which is:		
1		the las	nguage of a translation furnished for the purposes of international search (under Rule 23.1(b)).		
1		the la	nguage of publication of the international application (under Rule 48.3(b)).		
1			nguage of publication of the international experimental preliminary examination (under Rule 55.2 and/		
Ì		or 55.	d to any nucleotide and/or amino acid sequence disclosed in the international application, the international		
3.	With	minary	examination was carried out on the basis of the sequence insting.		
1		conta	ined in the international application in written form.		
	닏	filed	together with the international application in computer readable form.		
	\square	furnis	shed subsequently to this Authority in written form.		
1	닏	furnis	shed subsequently to this Authority in computer readable form. statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the		
	Ш		resident application as filed has been furnished.		
		The	statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.		
	\Box	The	amendments have resulted in the cancellation of:		
4.	ш		the description, pages		
		H	the claims, Nos.		
		片	the drawings, sheets/fig		
5.		This the beyon	report has been established as if (some of) the amendments had not been made, since they have been considered to go and the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**		
	in t	lacemen	nt sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16		
**	ana Any	70.17). replace	ment sheet containing such amendments must be referred to under item 1 and annexed to this report.		

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IV. Lack of unity of invention					
1. In response to the invitation to restrict or pay additional fees the applicant has:					
restricted the claims.					
paid additional fees.					
paid additional fees under protest.					
neither restricted nor paid additional fees.					
This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.					
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is					
complied with.					
not complied with for the following reasons:					
See supplemental sheet					
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4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:					
all parts.					
the parts relating to claims Nos.					

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV.3

The common feature among claims 1-19 is a transgenic non-human animal having a gene that codes the membrane protein from a virus inserted therein.

However, a transgenic mouse having a gene that codes the membrane protein from a virus inserted therein was well known on the priority date of the present application (refer to J. SATOI et al., J. Virol., 2001, Vol. 75, No. 24, pages 12121-12127). Consequently, this common feature does not define a contribution over the prior art; therefore, it cannot be said to be a special technical feature as prescribed by PCT Rule 13.2.

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Statement			
Novelty (N)	Claims	1-11, 13, 14, 17-19	YES
•	Claims	12, 15, 16	NO —
To making step (TS)	Claims	1-11, 19	YES
Inventive step (13)	Claims	12-18	NO _
Industrial applicability (IA)	Claims	1-19	YES
modulation approximation in the state of the	Claims		NO
	Statement Novelty (N) Inventive step (IS) Industrial applicability (IA)	Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims	Novelty (N) Claims 1-11, 13, 14, 17-19 12, 15, 16 Inventive step (IS) Claims 1-11, 13, 14, 17-19 12, 15, 16 1-11, 19 1-11, 19 1-11, 19 1-11, 19

Citations and explanations

Document 1: J. SATOI et al., J. Virol., 2001, Vol. 75,

No. 24, pages 12121-12127

Document 2: G. W. BLISSARD et al., Virology, 1989, Vol.

170, No. 2, pages 537-555

Document 3: R. LIANG et al., J. Biol. Chem., 1995, Vol.

270, No. 12, pages 6456-6463

Claims 12, 15 and 16

The invention set forth in claims 12, 15 and 16 lacks novelty in the light of document 1.

Document 1 discloses a transgenic mouse having a plasmid inserted therein, said plasmid having been modified with the gene that codes the envelope protein of HCV, which is a membrane protein from a virus.

Claims 12-18

The inventions set forth in claims 12-18 do not involve an inventive step in the light of document 2.

Document 2 discloses the amino acid sequence for the membrane protein gp64 and the base sequence that codes said protein, and confirms the ability to express gp64 using a transformed cell.

The feature of creating of a transgenic mouse having DNA with a known base sequence or amino acid sequence

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inserted therein was well known on the priority date of the present application; therefore, it would be possible to create a transgenic mouse having the gene that codes gp64, which is disclosed in document 1, inserted therein.

Claims 1-11 and 19

The inventions that are set forth in claims 1-11 and 19 are not disclosed in the documents that are cited in the international search report or in the documents that are considered to be related to the inventions in question, and could not have been invented by simply combining the disclosures of these documents.

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RY EXAMINATION REPORT

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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The inventions set forth in claims 1-7, 9-13 and 15-18 pertain to a "method for producing antibodies that recognize a target antigen, which comprises a step for obtaining the antibody to a target antigen or the gene that codes the antibody by immunizing a non-human animal that exhibits an immunological tolerance to background antigens with an immunogen that includes the target antigen and background antigens." However, the only specific example of the abovementioned antigen production method in the description involves obtaining a transgenic mouse using gp64 as the background antigen, and producing the antibody to PepT1 in said transgenic mouse.

Consequently, in the light of the abovementioned disclosure in the description, there is not sufficient support in the description for the feature of creating a non-human animal that exhibits immunological tolerance to any background antigen and obtaining the antibody to any intended antigen using said non-human animal that exhibits immunological tolerance in the inventions set forth in the abovementioned claims.